

ring nodes :

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----

24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ring bonds :

1-2	1-6	2-3	3-4	4-5	4-7	5-6	5-37	6-16	7-8	7-12	8-9	9-10	10-11	10-43
-----	-----	-----	-----	-----	-----	-----	------	------	-----	------	-----	------	-------	-------

11-12	13-14	13-18	13-39	14-15	15-16	16-17	17-18	19-20	19-24	20-21	20-34
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

21-22	21-38	22-23	22-25	23-24	25-26	25-30	26-27	27-28	28-29	28-44	29-30
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

31-32	31-36	31-40	32-33	33-34	34-35	35-36	37-41	37-42	38-41	38-42	39-40
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

43-44

exact/norm bonds :

4-7	5-37	6-16	10-43	13-39	20-34	21-38	22-25	28-44	31-40	37-41	37-42
-----	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------

38-41	38-42	39-40	43-44
-------	-------	-------	-------

normalized bonds :

1-2	1-6	2-3	3-4	4-5	5-6	7-8	7-12	8-9	9-10	10-11	11-12	13-14	13-18
-----	-----	-----	-----	-----	-----	-----	------	-----	------	-------	-------	-------	-------

14-15	15-16	16-17	17-18	19-20	19-24	20-21	21-22	22-23	23-24	25-26	25-30
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

26-27	27-28	28-29	29-30	31-32	31-36	32-33	33-34	34-35	35-36
-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Match level :

1:Atom	2:Atom	3:Atom	4:Atom	5:Atom	6:Atom	7:Atom	8:Atom	9:Atom	10:Atom
--------	--------	--------	--------	--------	--------	--------	--------	--------	---------

11:Atom	12:Atom	13:Atom	14:Atom	15:Atom	16:Atom	17:Atom	18:Atom	19:Atom
---------	---------	---------	---------	---------	---------	---------	---------	---------

20:Atom	21:Atom	22:Atom	23:Atom	24:Atom	25:Atom	26:Atom	27:Atom	28:Atom
---------	---------	---------	---------	---------	---------	---------	---------	---------

29:Atom	30:Atom	31:Atom	32:Atom	33:Atom	34:Atom	35:Atom	36:Atom	37:Atom
---------	---------	---------	---------	---------	---------	---------	---------	---------

38:Atom	39:Atom	40:Atom	41:Atom	42:Atom	43:Atom	44:Atom
---------	---------	---------	---------	---------	---------	---------

=> d his

(FILE 'HOME' ENTERED AT 12:42:48 ON 30 MAR 2008)

FILE 'REGISTRY' ENTERED AT 12:43:04 ON 30 MAR 2008
L1 STRUCTURE uploaded

=> d l1
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 12:43:33 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4688 TO ITERATE

42.7% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 89654 TO 97866
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 12:43:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 93556 TO ITERATE

100.0% PROCESSED 93556 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
179.28 179.49

FILE 'CAPLUS' ENTERED AT 12:44:58 ON 30 MAR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 30 Mar 2008 VOL 148 ISS 14
FILE LAST UPDATED: 28 Mar 2008 (20080328/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s cyclophane#
L4          4837 CYCLOPHANE#  
  
=> s 14 and diamines
     29064 DIAMINES
L5          25 L4 AND DIAMINES  
  
=> s 15 and complex
     1400406 COMPLEX
L6          5 L5 AND COMPLEX  
  
=> d 1-5 bib aabs
'AABS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'
```

The following are valid formats:

```
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
CLASS ----- IPC, NCL, ECLA, FTERM
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
           SCAN must be entered on the same line as the DISPLAY,
           e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, CLASS  
  
IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations  
  
HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
           containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
```

its structure diagram
HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

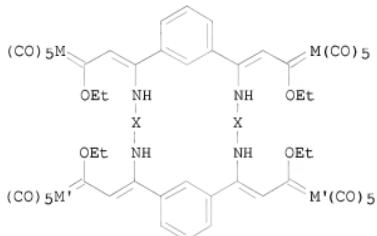
ENTER DISPLAY FORMAT (BIB):end

=> d 1-5 bib abs

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1079231 CAPLUS
DN 146:27919
TI Structure-Activity Relationships for Cytotoxic Ruthenium(II) Arene Complexes Containing N,N-, N,O-, and O,O-Chelating Ligands
AU Habtemariam, Abraha; Melchart, Michael; Fernandez, Rafael; Parsons, Simon; Oswald, Iain D. H.; Parkin, Andrew; Fabbiani, Francesca P. A.; Davidson, James E.; Dawson, Alice; Aird, Rhona E.; Jodrell, Duncan I.; Sadler, Peter J.
CS School of Chemistry, University of Edinburgh, Edinburgh, EH9 3JJ, UK
SO Journal of Medicinal Chemistry (2006), 49(23), 6858-6868
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 146:27919
AB Ruthenium arene complexes containing bidentate diamine, amino acid and diketonate chelate ligands were prepared by a variety of appropriate procedures and examined for cytostatic activity against human cancer cells. Organometallic Ru(II) complexes $[(\eta^6\text{-arene})\text{Ru}(\text{XY})\text{Cl}]Z$, where XY is an N,N- (diamine), N,O- (e.g., amino acidate), or O,O- (e.g., β -diketonate) chelating ligand, the arene ranges from benzene derivs. to fused polycyclic hydrocarbons, and Z is usually PF₆, were prepared by direct or reduction-assisted complexation of arenes, substitution of cycloalkadiene or arene ligands with subsequent complexation of bidentate XY-ligands. The x-ray structures of 13 complexes are reported. All have the characteristic "piano-stool" geometry. The structure-activity relationships was evaluated for cytotoxicity of the prepared complexes against human cancer cells. The complexes most active toward A2780 human ovarian cancer cells contained XY = ethylenediamine (en) and extended polycyclic arenes. Complexes with polar substituents on the arene or XY = bipyridyl derivs. exhibited reduced activity. The activity of the O,O-chelated complexes depended strongly on the substituents and on the arene. For arene = p-cymene, XY = amino acidate complexes were inactive. Complexes were not cross-resistant with cisplatin, and cross-resistance to Adriamycin was circumvented by replacing XY = en with 1,2-phenylenediamine. Some complexes were also active against colon, pancreatic, and lung cancer cells.

RE.CNT 88 THERE ARE 88 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:213301 CAPLUS
DN 138:368989
TI Synthesis and Electrochemical Properties of Novel Tetrametallic
Macrocyclic Fischer Carbene Complexes
AU Fernandez, Israel; Mancheno, Maria Jose; Gomez-Gallego, Mar; Sierra,
Miguel A.
CS Departamento de Quimica Organica, Facultad de Quimica, Universidad
Complutense de Madrid, Madrid, 28040, Spain
SO Organic Letters (2003), 5(8), 1237-1240
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 138:368989
GI



AB Metallomacrocyclic compds. [I; wherein M, M', independently = Cr, W; X = -C6H4-, -(C6H4)2-] can be easily prepared by 1,4-addition of diamines
to α,β -unsatd. Fischer bis-carbene templates. This method
allows the preparation of a new family of homo- and heterotetrametallic compds.
having macrocyclic cyclophane structures.

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:680382 CAPLUS
DN 136:6093
TI Synthesis of Cyclophanic Chromium(0) Bis(carbene) Complexes
AU Fernandez, Israel; Sierra, Miguel A.; Mancheno, Maria Jose; Gomez-Gallego,
Mar; Ricart, Susagna
CS Departamento de Quimica Organica Facultad de Quimica, Universidad
Complutense, Madrid, 28040, Spain
SO Organometallics (2001), 20(21), 4304-4306
CODEN: ORGND7; ISSN: 0276-7333
PB American Chemical Society
DT Journal
LA English
OS CASREACT 136:6093

AB Double Michael addition of 1,4- and 1,3-xylylenediamines and 1,5-diaminopentane to the bimetallic α,β -unsatd. alkoxychromium(0) carbene complex m-
C6H4[C.tpbond.CC(OEt):Cr(CO)5]2 4 produces in good to excellent yields the corresponding cyclophane bimetallic complexes as single isomers. In contrast, the reaction with 1,4-diaminobutane produces a different cyclophane complex, derived from a 1,2- + 1,4-addition process.

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1988:131780 CAPLUS
DN 108:131780
TI Polyaza-macrocycles of cyclophane type: synthesis, structure of a chloroform inclusion complex and anion binding
AU Jazwinski, Jaroslaw; Lehn, Jean Marie; Meric, Robert; Vigneron, Jean Pierre; Cesario, Michele; Guilhem, J.; Pascard, Claudine
CS Inst. Bel. Univ. Louis Pasteur, Strasbourg, Fed. Rep. Ger.
SO Tetrahedron Letters (1987), 28(30), 3489-92
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 108:131780
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Cyclocondensation of 4-HCOC6H4CH2C6H4CHO-4 with diamines, e.g., H2NCH2CH2NH2, (H2NCH2CH2)2X (X = O, NSO2C6H4Me-4) gave 65-85% I and II, resp. I gave a CHCl3 inclusion complex, the crystal structure of which was determined Reduction of I by LiAlH4 gave tetramine III, which binds dicarboxylate substrates.

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1984:434686 CAPLUS
DN 101:34686
OREF 101:5369a,5372a
TI Cyclophane porphyrins and their metal complexes. Biomimetic study on receptor site of hemoprotein oxygen binding
AU Ogoshi, Hisanobu; Sugimoto, Hiroshi; Miyake, Masao; Yoshida, Zenichi
CS Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SO Tetrahedron (1984), 40(3), 579-92
CODEN: TETRAB; ISSN: 0040-4020
DT Journal
LA English
AB A new sym. porphyrin, 7,8,17,18-tetraethyl-3,13-dimethylporphyrin-2,12-dipropionic acid, and its derivs. were synthesized by the α,β -biladiene route. Condensation of the dipropionic acid with diamine, [H2N(CH2)nNH2, n = 6, 7, 8, 9, 10, 12, and 14], afforded the corresponding cyclophane porphyrins. The bridged groups were characterized by the 1H NMR spectra of their Zn complexes. The spin state of the Fe3+ complexes of the cyclophane porphyrins was investigated by changing the size of the bridged chain or size of axial ligand. The cyclophane-porphyrinato(III) perchlorate complexes in a mixture of MeOH and CHCl3 with 4-benzylpyridine provide a model for methemoproteins. Steric constraint between and axial ligand and the bridge group, [CH2CH2CONH(CH2)nNHCOCOCH2CH2] at the bridged face dets. the ratio of the

penta- and hexa-coordinated ferric complexes. The rate of O-binding to the Co²⁺ cyclophane porphyrins is markedly dependent on the size of the bridge chain. Removal of a solvent mol. or 6th axial ligand from the near proximity of the Co²⁺ complex apparently increases the rate of O binding.

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	25.71	205.20
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-4.00	-4.00

STN INTERNATIONAL LOGOFF AT 12:50:56 ON 30 MAR 2008